

# **HAPI**

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## User Manual v3.0





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## Introduction

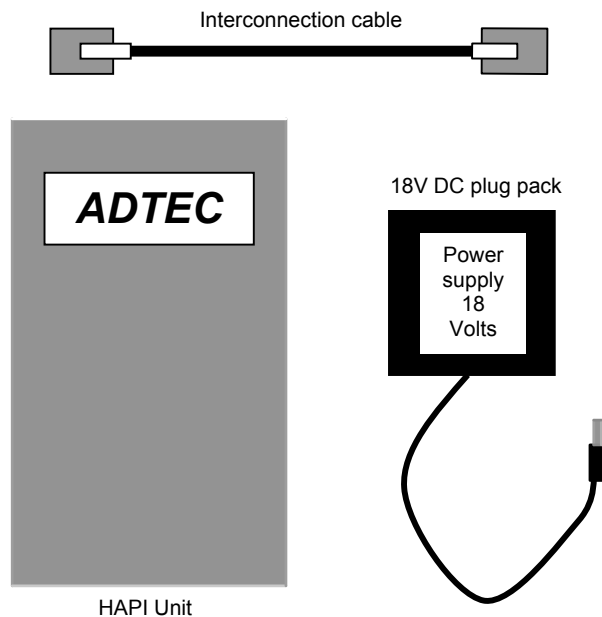
The HAPI (Hybrid Adaptor Telephone Interface) is a cost-effective device allowing the connection of analogue conference telephones to any digital telephone or key-telephone (such as a Commander).

HAPI gives portability of conference telephones that dedicated analogue extensions do not, and allows the user to access the benefits of digital telephones or key-telephones.

## Contents

The following items are included with HAPI:

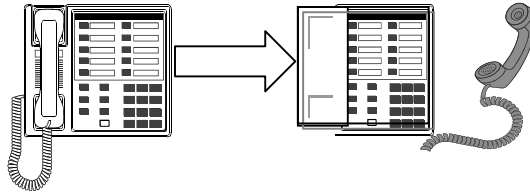
- HAPI unit
- 18V DC Plug Pack
- Interconnection cable.






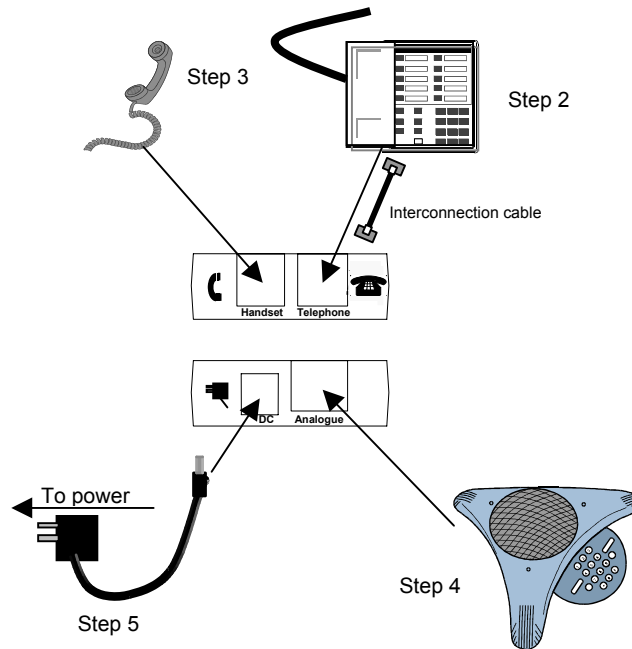
## Installation

### Steps used to connect and install HAPI.

1. Unplug handset connector from base of telephone.



2. Connect interconnection cable supplied between  HAPI socket, and handset socket on base of digital telephone.
3. Connect original handset cord to  socket on HAPI.
4. Connect conference telephone to  socket on HAPI.
5. Connect 18V DC plug pack to DC input socket on HAPI.



***HAPI Switch settings***

(Also See Appendix A & B.)

<b>Telephone System</b>	<b>Switches on</b>	<b>Cord type</b>
AT&T 74xx Series	3 & 6 ON	Normal
AT&T 79	"	Reverse
Commander BN	1,2,3,4 & 7 ON	Normal
Commander E	3, 4, 8, & 9 ON	Reverse
Commander HX	5 & 9 or 5 & 10 ON	Normal
Commander NT321	3 & 8 ON	Normal
Ericsson	4 & 8 ON	Normal
Hyundia HKP-816	4 & 8 ON	Normal
Interquartz	1, 2 & 8 ON	Normal
Nortel Meridian	3 & 8 ON	3-wire
Nortel NT Meridian	1, 2 & 7	Normal
Nortel GDK	3 & 8 ON	Normal
NEC 2400	1, 2 & 8 ON	Normal
Telecom T200	3, 9 ON	Reversal

If your switch setting does not appear in this list, see appendix A & B for setting up your HAPI.

## ***Call Scenarios***

### **Calling sequence for HAPI**

1. Remove digital telephone handset, select line and dial desired number(s)
2. When call(s) successful, press 'off-hook' button on conference phone and place digital handset on table.
3. Use conference phone as normal.
4. When call is finished, press 'on-hook' button on the conference phone, and hang up digital handset.

Note: Do not hang up digital handset until call has ended.

### **Using digital telephone handset with HAPI**

When HAPI is connected following installation procedures on page 4, digital telephone handset will be switched off when conference telephone is 'off hook'. To use handset, simply press the 'on-hook' button on conference telephone.

Call may be switched from conference telephone to handset while in progress.

### **Terminating a call**

To terminate a call, digital telephone handset must be replaced on telephone.

*Please note: pressing 'on hook' button of conference telephone will not terminate a call.*

## ***Appendix A***

### **Setup Procedure**

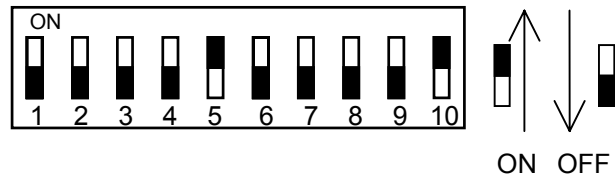
1. Confirm HAPI has been installed following Installation procedures on page 4.
2. Check HAPI switch settings list. If your telephone type occurs here, use these settings for HAPI; otherwise go to step 3.
3. Ensure that switches 5 and 10 are in the ON position and all others are OFF.
4. Press conference telephone's 'off-hook' button and remove handset from digital telephone base. (If unusual noises are heard see '*Noises*' on page 8.)
5. Usual PABX dial tone should be heard on conference telephone (let telephone adjust for about 5 seconds. If tone sounds low, ring another telephone or use on-hold music. Ensure this call has been made externally, then see *Increasing speaker volumes* page 9.
6. Once step 5 has been completed successfully, make a call to another person. If they cannot hear you, speak on handset of digital telephone by placing conference telephone on hook. Then follow procedures in *Increasing Microphone volume* on page 10.
7. The levels should now be set. If you have any further problem please contact your supplier.



## Noises

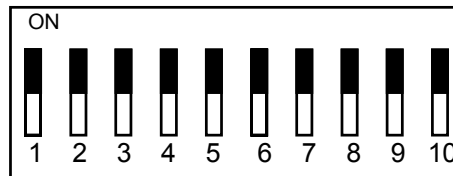
Noises such as buzzing and howling are due to incorrect level adjustments. Lowering the signal levels of HAPI should rectify this problem.

If step 2 of setting procedure has been correctly carried out, switches should be the same as the diagram below.



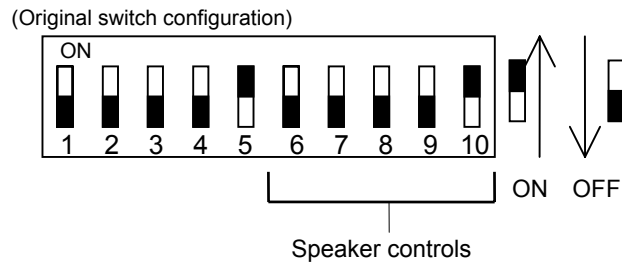
Starting from switch 9 set switches to ON position in descending order. When noise ceases, return to *setting procedure* step 4.

If noise persists after all switches are ON then contact supplier.



## Increasing speaker volume

Switches 6 to 10 control volume of speaker. Switches 6 to 10 turned ON is the lowest speaker level. Switch 6 ON only is the highest speaker level.

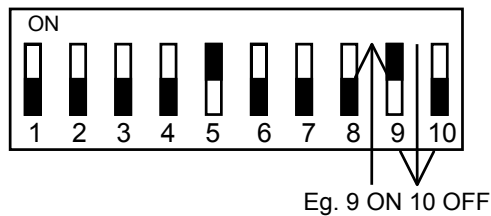


To obtain an approximate speaker volume (while listening to music on hold or similar), do the following.

### Steps to Increase the Speaker Volume

1. Turn ON switches in descending order one at a time, leaving 5-second gap between each change. Do this until preferred speaker volume is reached, then return to *Setting procedure* step 6.

If unusual noises are heard, follow the procedures in next step.



2. Turn ON switches in descending order starting from currently set switch until noise ceases.

Do this until speaker stops making unusual noise, then return to *Setting procedure* step 6.

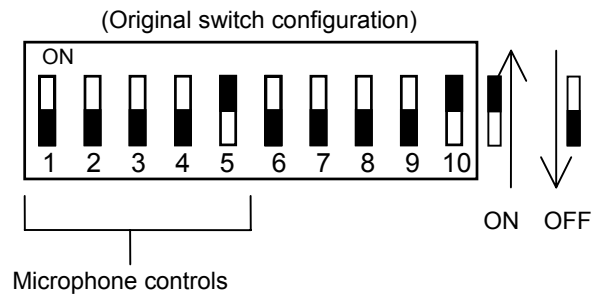
If noise does not cease, set switches in previously working position, then return to *Setting procedure* step 6.



Eg. Turn switch 7 ON whilst leaving 8 ON

### Increasing Microphone Volumes

With person called still connected, adjust microphone switches until they hear you clearly using the following steps. Switches 1 to 5 turned ON is the lowest microphone volume. Switch 1 ON only is the highest microphone level.

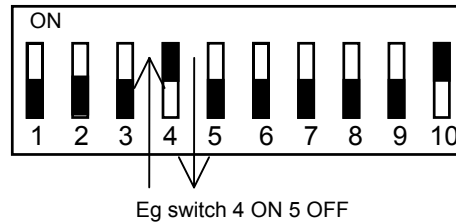


### Steps to Increase the Microphone Levels

1. Turn ON switches in descending order one at a time, leaving 5-second gap between each change.

Do this until microphone levels are OK, then return to *Setting procedure* step 7.

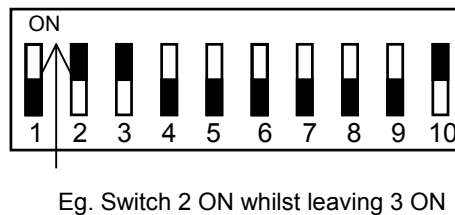
If unusual noises are heard, proceed to the next step.



2. Turn ON switches in descending order starting from currently set switch until noise ceases.

Do this until speaker stops making unusual noise, then return to *Setting procedure* step 7.

If noise does not cease set switches in previously working position, then return to *Setting procedure* step 7.



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**Notes**

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**Appendix B**

HAPI Level Adjustments decreasing in steps from 1 to 31.

**(TX)Transmit Switch Numbers 1–5**

Level Setting #	1	2	3	4	5
1	1	0	0	0	0
2	0	1	0	0	0
3	1	1	0	0	0
4	0	0	1	0	0
5	1	0	1	0	0
6	0	1	1	0	0
7	1	1	1	0	0
8	0	0	0	1	0
9	1	0	0	1	0
10	0	1	0	1	0
11	1	1	0	1	0
12	0	0	1	1	0
13	1	0	1	1	0
14	0	1	1	1	0
15	1	1	1	1	0
16	0	0	0	0	1
17	1	0	0	0	1
18	0	1	0	0	1
19	1	1	0	0	1
20	0	0	1	0	1
21	1	0	1	0	1
22	0	1	1	0	1
23	1	1	1	0	1
24	0	0	0	1	1
25	1	0	0	1	1
26	0	1	0	1	1
27	1	1	0	1	1
28	0	0	1	1	1
29	1	0	1	1	1
30	0	1	1	1	1
31	1	1	1	1	1

**(RX)Receive Switch Numbers 6-10**

Level Setting #	6	7	8	9	10
1	1	0	0	0	0
2	0	1	0	0	0
3	1	1	0	0	0
4	0	0	1	0	0
5	1	0	1	0	0
6	0	1	1	0	0
7	1	1	1	0	0
8	0	0	0	1	0
9	1	0	0	1	0
10	0	1	0	1	0
11	1	1	0	1	0
12	0	0	1	1	0
13	1	0	1	1	0
14	0	1	1	1	0
15	1	1	1	1	0
16	0	0	0	0	1
17	1	0	0	0	1
18	0	1	0	0	1
19	1	1	0	0	1
20	0	0	1	0	1
21	1	0	1	0	1
22	0	1	1	0	1
23	1	1	1	0	1
24	0	0	0	1	1
25	1	0	0	1	1
26	0	1	0	1	1
27	1	1	0	1	1
28	0	0	1	1	1
29	1	0	1	1	1
30	0	1	1	1	1
31	1	1	1	1	1